SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	**Polyester Catalyst**
Item Code:	9400
Product Use:	Catalyst/Curing Agent for Unsaturated Polyester Resins
Restriction of Use:	Refer to Section 15
Australian Supplier:	**Norglass Paints**
Address:	59 Moxon Road Punchbowl NSW 2196 Australia
Telephone:	+61 2 9708 2200
Email:	techinfo@norglass.com.au
New Zealand Supplier:	xxx
Address:	xxx xxx
Telephone:	0508 724687
Emergency Numbers:	
Australia:	**13 1126 (Poisons Information Centre)**
New Zealand:	**0800 764 766 (National Poison Centre)**
Date of SDS Preparation:	10 December 2023 v3

Section 2. Hazards Identification

Australia:
Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

New Zealand:
This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR001376

Pictograms

Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 4	H227	Combustible liquid.
Organic peroxide Type E	H242	Heating may cause a fire.
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.

Skin corrosion Cat. 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.

Prevention Code	**Prevention Statement**
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P234	Keep only in original container.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P260	Do not breathe fumes or vapours.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing.

Response Code	**Response Statement**
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378	In case of fire: Use water spray, foam and carbon dioxide for extinction.

Storage Code	**Storage Statement**
P405	Store locked up.
P410	Protect from sunlight.
P420	Store away from other materials.
P403 + P235	Store in a well-ventilated place. Keep cool.
P411 + P235	Store at temperatures not exceeding 25°C . Keep cool.

Disposal Code	**Disposal Statement**
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	**Wt%**	**CAS NUMBER.**
MEKP	35-40	1338-23-4
Dimethyl Phthalate	58-63	131-11-3
MEK	1-3	78-93-3

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: get medical advice/attention.
If Swallowed	Rinse mouth. DO NOT induce vomiting. Give a glass of water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Depending on quantity consumed, stomach wash may be necessary. Call a POISON CENTER or doctor/physician.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:	Harmful if swallowed.
Inhalation:	Harmful if inhaled.
Skin:	Causes severe skin burns.
Eye:	Causes serious eye damage.
Chronic:	Not applicable.

First Aid Facilities	Call a physician IMMEDIATELY. Eye wash fountains and safety showers should be available at the place of use of this product.

Section 5. Fire Fighting Measures

Hazard Type	Combustible. Organic Peroxide – Heat sensitive
Hazards from combustion products	If involved in a fire, it will support combustion.
Suitable Extinguishing media	Extinguishing media water spray, foam and carbon dioxide.
Precautions for firefighters and special protective clothing	Wear full body protection and self-contained breathing apparatus.
HAZCHEM CODE	**2WE**

Section 6. Accidental Release Measures

Personal precautions:

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. Handle spillage with extreme care. Extinguish all forms of ignition.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Notify authorities if product enters sewers or public waters.

Spill and Disposal procedures:

Absorb the spillage with non-flammable material such as vermiculite. Thereafter cleaned by flushing with water. Disposal probably in controlled incineration but according to local regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep or store away from clothing and combustible materials.
- Keep only in original container.
- Do not pipette by mouth.
- Do not breathe fumes or vapours.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing.

Precautions for Storage:

- Do not bring this product in direct contact with accelerators or reducing agents.
- Store away from Amines, Acids, Alkalis, heavy metal compounds. (Accelerators, Dryers, Metal Soaps).
- Store locked up.
- Keep out of reach of children.
- Protect from sunlight.
- Keep containers tightly closed.
- Store in a well-ventilated place. Keep cool.
- Store at temperatures not exceeding 25°C. Keep cool.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³
Methyl ethyl ketone peroxide [1338-23-4] Ceiling	0.2	1.5	-	-
Dimethylphthalate [131-11-3]	–	5	-	-
Methyl ethyl ketone (bio) [78-93-3]	150	445	300	890

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls

Ensure good ventilation and local exhaustion of working area. Explosion proof ventilation recommended.

Personal Protection Equipment:

Eyes	Wear safety goggles with side shields. Avoid wearing contact lenses.
Hands and Skin	Wear suitable gloves either neoprene or synthetic rubber. Wear suitable protective clothing. Launder contaminated clothes before use.
Respiratory	Avoid breathing vapours. Work only in well ventilated areas. If ventilation is not adequate then wear a respirator to the requirements of AS1715 and AS1716.
General	Observe good standards of hygiene and cleanliness.

Section 9 Physical and Chemical Properties

Appearance	Clear, colourless liquid
Odour	Faint
Odour Threshold	Not available
pH	Weak acid
Boiling Point	Product decomposes
Melting Point	Not available
Freezing Point	Not available
Flash Point	$>100^0$C
Flammability	Not available
Upper and Lower Exposure Limits	Not available
Volatile Component	Not available
Vapour Pressure	Not available
Specific Gravity	1.16
Solubilities	Partly miscible with water
Partition Coefficient:	Not available
Auto-ignition Temperature	220^0C
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Reactivity Data	Violent reactions may be expected with acids, alkali heavy metals and reducing agents. Avoid contact with rust. Do not mix with peroxide accelerators. Use only stainless steel, PVC, Polyethylene or glass.
Conditions to Avoid	Heat and sources of ignition.
Incompatible Materials	Store away from Amines, Acids, Alkalis, heavy metal compounds. (Accelerators, Dryers, Metal Soaps).
Hazardous Decomposition Products	None known. Oxides of carbon

Section 11 Toxicological Information

This product is an organic peroxide and should be handled with **EXTREME** care.

Acute Effects:

Swallowed	Harmful if swallowed.
Dermal	Not applicable.
Inhalation	Harmful if inhaled.
Eye	Causes serious eye damage.
Skin	Causes severe skin burns.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Individual component information:

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Dimethylphthalate (131-11-3)	1000 mg/kg (rabbit)	-	9.3 mg/L (Cat)
MEK (78-93-3)	2737mg/kg (rat)	-	-

Section 12. Ecotoxicological Information

Toxic to aquatic life with long lasting effects.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available
Precautions	Do not allow to enter waterways.

Individual component information (Please refer to www.epa.govt.co.nz for full details):

Dimethylphthalate (131-11-3)

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Cyprinodon variegatus (Sheepshead minnow)	96 hr	29 mg/L
Chronic aquatic, fish	Oncorhynchus mykiss (Rainbow trout)	2880 hr	11 mg/L
Aquatic, Crustacean	Daphnia magna (Crustacea)	48 hr	33 mg/L
Aquatic, Algal	Skeletonema costatum (Algae)	96 hr	26.1 mg/L
Bioaccumulative	No		
Rapidly Degradable	Yes		

Section 13. Disposal Considerations

Disposal Method: Place recovered product into an appropriate waste container for disposal through appropriate waste company or specialized landfill in accordance with local regulations. Ensure container is sealed and isolated away from ignition sources.

Precautions: Ensure waste container containing recovered product or contaminated spill media is labelled "Hazardous Waste – Combustible, Organic Peroxide, Ecotoxic". If triple rinsing container, add rinsate to waste container for disposal.

Disposal methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

This product is classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020

Road, Rail, Sea and Air Transport

UN No	3105
Class - Primary	5.2
Packing Group	None allocated
Proper Shipping Name	ORGANIC PEROXIDE TYPE D, LIQUID
Marine Pollutant	YES
Special Provisions	If the product's individual container is below 125ml, it can be transported as a non-DG as long as the product packaging is still

	labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

Australia:
Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a **Schedule 5** Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

New Zealand:
This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

HSW (HS) Regulations 2017 and EPA Notices	**Trigger Quantity**
Certified Handler	Not required
Location Certificate	250L
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	10L (5.2E)
Emergency Response Plan	100L(5.2E)
Secondary Containment	100L(5.2E)
Restriction of Use	**Restriction of Use:** No person may use this substance described as a pesticide or a veterinary medicine. However, this substance may be used in the formulation of a pesticide or a veterinary medicine. For the purpose of this control— (a) pesticide includes, but is not limited to, a product intended for use as an acaricide, antifouling paint, avicide, fumigant, fungicide, insecticide, herbicide, miticide, molluscicide, piscicide, timber treatment preservative or vertebrate toxic agent (b) veterinary medicine has the same meaning given to it in the Agricultural Compounds and Veterinary Medicines Act 1997. Act 1997.

Section 16 Other Information

Glossary

EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level

References:
Australia:

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
2. Standard for the Uniform Scheduling of Medicines and Poisons.
3. Australian Code for the Transport of Dangerous Goods by Road & Rail.
4. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
5. Workplace exposure standards for airborne contaminants, Safe work Australia.
6. American Conference of Industrial Hygienists (ACGIH).
7. Globally Harmonised System of classification and labelling of chemicals.

New Zealand:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer
This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the Australian Manufacturer or New Zealand distributor, if further information is required.

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